

What is claimed is:

1. A phone system, comprising:
  - a terminal unit comprising:
    - 5 a power source,
    - a handset connection;
  - a handset comprising:
    - a antenna,
    - a modem connected to said antenna,
  - 10 a terminal unit connection,
  - a handset user interface;

wherein said modem provides an air interface using said antenna,  
said air interface provides a wireless local loop,  
when said handset is connected to said terminal unit through said handset  
connection and said terminal unit connection, said handset receives power from said power  
source.
2. The phone system of claim 1, further comprising:
  - a power connection cable connected to said handset connection and to said terminal  
unit connection;
  - 20 wherein said handset receives power from said power source through said power  
connection cable.
3. The phone system of claim 1, wherein:
  - 25 said handset further comprises:
    - a battery, and
  - when said handset is not connected to said terminal unit through said handset  
connection and said terminal unit connection, said handset uses said battery for power.
- 30 4. The phone system of claim 3, wherein:
  - said battery receives power for recharging from said power source.
5. The phone system of claim 1, wherein:
  - said air interface provides a cellular phone air interface.

6. The phone system of claim 1, wherein:

said air interface provides a PCS air interface.

5 7. The phone system of claim 1, wherein:

said handset further comprises:

a handset command interface for processing commands received through  
said handset user interface.

10 8. The phone system of claim 7, wherein:

said handset command interface processes commands received from said terminal  
unit.

9. The phone system of claim 1, wherein:

15 said terminal unit further comprises:

a peripheral connection for connecting a peripheral device to said terminal  
unit.

10. The phone system of claim 9, wherein:

20 said peripheral connection is an RJ-11 connection.

11. The phone system of claim 9, wherein:

said peripheral connection supports connecting a fax machine to said terminal unit.

25 12. The phone system of claim 9, wherein:

when said handset is connected to said terminal unit through said handset  
connection and said terminal unit connection, said handset receives data from said  
peripheral connection.

30 13. The phone system of claim 9, wherein:

when said handset is connected to said terminal unit through said handset  
connection and said terminal unit connection, said handset sends data to said peripheral  
connection.

14. The phone system of claim 1, wherein:

    said terminal unit further comprises:

        a terminal command interface for processing commands received from said handset.

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15. The phone system of claim 1, wherein:

    said terminal unit further comprises:

        a terminal user interface.

10     16. The phone system of claim 15, wherein:

    said terminal unit further comprises:

        a terminal command interface for processing commands received through said terminal user interface.

15     17. The phone system of claim 16, wherein:

    said terminal command interface processes commands received from said handset.

18. A method of operating a wireless local loop phone, comprising:

    connecting a wireless local loop handset to a terminal unit;

20     providing power from said terminal unit to said handset;

    operating said handset using said power from said terminal unit;

    disconnecting said handset from said terminal unit; and

    operating said handset using power in a battery within said handset;

25     wherein operating said handset includes sending and receiving signals through a wireless local loop air interface.

19. The method of claim 18, wherein:

    said air interface provides a cellular phone air interface.

30     20. The method of claim 18, wherein:

    said air interface provides a PCS air interface.

21. The method of claim 18, further comprising:

    recharging said battery while said handset is connected to said terminal unit.

22. The method of claim 18, further comprising:  
receiving data from a peripheral device connected to said terminal unit; and  
providing said data to said handset.

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23. The method of claim 18, further comprising:  
sending data from said handset to a peripheral device connected to said terminal unit.

10 24. The method of claim 18, wherein:

operating said handset includes sending and receiving data through a peripheral connection in said terminal unit.

25. A system for operating a wireless local loop phone, comprising:

15 means for connecting a wireless local loop handset to a terminal unit;  
means for providing power from said terminal unit to said handset;  
means for operating said handset using said power from said terminal unit;  
means for disconnecting said handset from said terminal unit; and  
means for operating said handset using power in a battery within said handset;  
20 wherein operating said handset includes sending and receiving signals through a wireless local loop air interface.

26. A wireless phone handset, comprising:

an antenna;  
25 a modem connected to said antenna;  
a terminal unit connection;  
a handset user interface;  
a multi-format power interface compatible with a power connector and a battery;  
wherein said modem provides an air interface using said antenna,  
30 said air interface provides a wireless connection to a wireless network.

27. The wireless phone handset of claim 26, wherein:

said air interface provides a cellular phone air interface.

28. The wireless phone handset of claim 26, wherein:  
said air interface provides a PCS air interface.

29. A method of upgrading a wireless local loop phone, comprising:  
5 disconnecting a power connection cable from a multi-format power connection of a  
wireless local loop phone;  
connecting a battery to said multi-format power connection;  
wherein said phone receives power only through said multi-format power  
connection.